What is claimed is:

1. A lubricant additive adapted to be blended to a lubricating oil, characterized in that

the lubricant additive is prepared by blending:

a synthesized base oil of the polyolester type,

calcium sulfonate containing calcium carbonate formed in the calcite crystal structure,

a poly-α-olefin oligomer, an anti-oxidant of the zinc dithiophosphate type, succinimide, an extreme pressure agent of the thiadiazole type and an anti-oxidant of the phenol type,

the calcium sulfonate has a calcium metal content of 2.0 to 12.0 w/w%,

the content of the synthesized base oil of the polyolester type to be contained in the lubricant additive is in a range of from 35.0 w/w% to 60.0 w/w%, and

the content of the calcium sulfonate to be contained in the lubricant additive is in a range of from 5.0 w/w% to 30.0 w/w%.

2. A lubricant additive of claim 1 characterized in that the content of the calcium sulfonate to be contained in the lubricant additive is in a range of from 10.0 w/w% to 20.0 w/w%.

3. A lubricant additive of claim 1 characterized in that the synthesized base oil of the polyolester type comprises normal saturated fatty acids comprising 8 to 18 carbon atoms.

4. A lubricant additive of claim 1 characterized in that the synthesized base oil of the polyolester type comprises trimethylolpropane tricaprylate/tricaprate.

5. A lubricant additive of claim 1 characterized in that the poly-α-olefin oligomer has a three-dimensional structure that is manufactured with use of metallocene catalyst.

6. A lubricant additive of claim 1 characterized in that the content of the poly-α-olefin oligomer to be contained in the lubricant additive is in a range of from 10.0 w/w% to 50.0 w/w%.

7. A lubricant additive of claim 1 characterized in that the anti-oxidant of the zinc dithiophosphate type comprises an anti-oxidant, the main component of which is zinc dithiophosphate comprising primary alkyl groups.

8. A lubricant additive of claim 7 characterized in that the zinc dithiophosphate comprises zinc 2-ethylhexyldithiophosphate.

9. A lubricant additive of claim 1 characterized in that the content of

the anti-oxidant of the zinc dithiophosphate type to be contained in the lubricant additive is in a range of from 0.5 w/w% to 3.0 w/w%.

10. A lubricant additive of claim 1 characterized in that the succinimide comprises poly-isobutenylsuccinimide.

11. A lubricant additive of claim 1 characterized in that the content of the succinimide to be contained in the lubricant additive is in a range of from 3.0 w/w% to 10.0 w/w%.

12. A lubricant additive of claim 1 characterized in that the extreme pressure agent of the thiadiazole type comprises at least one selected from a group consisting of 2,5-dimercapto-1,3,4-thiadiazole, 4,5-dimercaptothiadiazole, 3,5-dimercapto-1,2,4-thiadiazole and 3,4-dimercapto-1,2,5-thiadiazole.

13. A lubricant additive of claim 1 characterized in that the content of the extreme pressure agent of the thiadiazole type to be contained in the lubricant additive is in a range of from 1.0 w/w% to 6.0 w/w%.

14. A lubricant additive of claim 1 characterized in that the anti-oxidant of the phenol type comprises 2,6-di-tert-butyl-4-methylphenol.

15. A lubricant additive of claim 1 characterized in that the content of the anti-oxidant of the phenol type to be contained in the lubricant additive is in a range of from 0.1 w/w% to 2.0 w/w%.

16. A process for manufacturing the lubricant additive adapted to be blended to a lubricating oil characterized in that

the process for manufacturing a lubricant addictive comprises :

the first step to mix the synthesized base oil of the polyolester type and the poly-α-olefin oligomer in a routine container under heating at a temperature ranging from 50℃ or higher to 90℃ or lower,

the second step to mix the anti-oxidant of the dithiophosphate type, succinimide, the extreme pressure agent of the thiadiazole type and the anti-oxidant of the phenol type with the mixture obtained in the first step to dissolve these mixed components into the mixture, and

the third step to mix calcium sulfonate having a calcium metal content of 2.0 to 12.0 w/w% and containing calcium carbonate formed in the calcite crystal structure to the mixture obtained in the second step,

the content of the synthesized base oil of the polyolester type to be contained in the lubricant additive is in a range of from 35.0 w/w% to 60.0 w/w%, and

the content of the calcium sulfonate to be contained in the lubricant

additive is in a range of from 5.0 w/w% to 30.0 w/w%.